Electronic Plan Room – Plan Preparation

Allowable File Types for Iplot

- MicroStation DGN Files (*.dgn)
- IPARM Files (*.i)
- AutoCAD DWG Files (*.dwg)
- APARM Files (*.apm)
- JPEG – JFIF Compliant (*.jpg)
- TIF – Tagged Image File Format (*.tif)
- CALS – G4 Compliant (*.cal)
- Intergraph Raster (*.ims;*.cit;*.cot;*.crl;*.rgb;*.rle;*.tg4)
- RPARM Files (*.rpm)
- TGA – Truevision Targa (*.tga)
- PCX – Zsoft Paintbrush (*.bmp;*.pcx)
- InterPlot Digital Print Archive (*.dpr)
- DPARM Files (*.dpm)

Problems Frequently Encountered

- Printable area changes
    - Print drivers vary
    - Form name changes (11x17 vs. Tabloid)
- Resource mapping not same as project resource file
- Missing reference files
    - Base file created in non standard directory (not in search path)
    - Correct iplot.cfg file active
    - Setting save full path in reference manager
    - Referencing a temporary file that is deleted
- Compiling project data – Project directory containing files from all disciplines
    - All disciplines need to use same base files and file naming convention
    - All disciplines need to use same resource files (seed, line styles, etc.)
    - All disciplines use same directory structure and base project name (1843_01 vs. 1843_02)
- File changed in MicroStation but not updated in InterPlot Organizer
    - Levels turned on or off
    - Reference files attached or detached
    - View attributes changed
    - Border location moved
- Elements placed in drawing not showing in Iplot
    - Iplot.set file turns off levels 61-63
    - Iplot.set file does not display construction elements, enter data fields, reference boundaries, or text nodes
    - Elements placed on elevations outside of saved display depth
- Print area not found
    - Non standard border used
        - Iplot default looks for shape on level 61, color 44, weight 0, line style 0
    - Border reference detached or missing

Local Government – Autocad Submittal Requirements

Provide:

- Pen assignments and printing instructions
- All files used to create sheet files
    - Xrefs
    - Text fonts (*.shx, *.ttf, etc.)
- If standard file naming convention not used, provide description of files
- Strip full paths or switch full paths to relative paths. Provide list of required directories to be included in search path.

Iplot Limitations With AutoCAD Support

InterPlot Client/Professional provides extensive AutoCAD Release 10 through 2000 support, including support for hatch entities, lwpolyline entities, application-defined proxy entities, AutoCAD project search paths, and TrueType font display.
InterPlot has a few limitations with regard to plotting AutoCAD drawing files:

- No support for AutoCAD display order. You can work around this issue by using InterPlot's priority resymbolization feature (through the use of pen tables). Refer to the on-line InterPlot Reference help for more information on how to use pen tables.
- Partial support for xref clipping. Clipping in plan views is supported. Non-view-aligned xref clip boundaries in 3D views are not supported.
- Quicktext mode inside MTEXT entities is not supported.
- Plotting of hidden-line or shaded views is not supported.
- Negative DIMGAP values for leader entities are not supported.

Creating a plot set

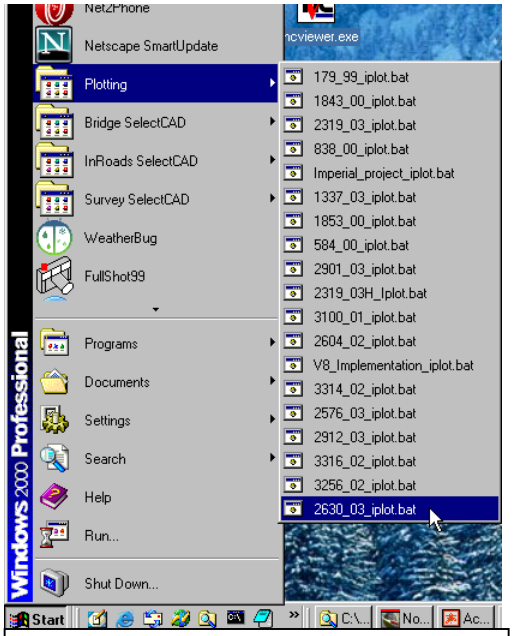

Figure 1 - Run InterPlot Organizer. InterPlot Organizer should always be launched from the batch file created by the CADD Utilities program. This batch file copies configuration files into the program directories that designate the search paths and settings file that are project specific.

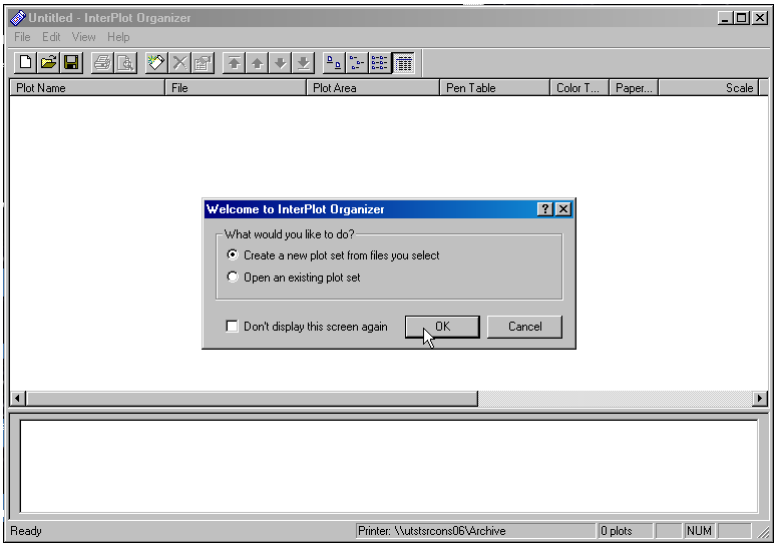

Figure 2 – Create plot set. Once InterPlot Organizer has loaded, make sure the correct printer is selected. Select OK to create a new plot set or click on the "Open an existing plot set" to open a previously created plot set.

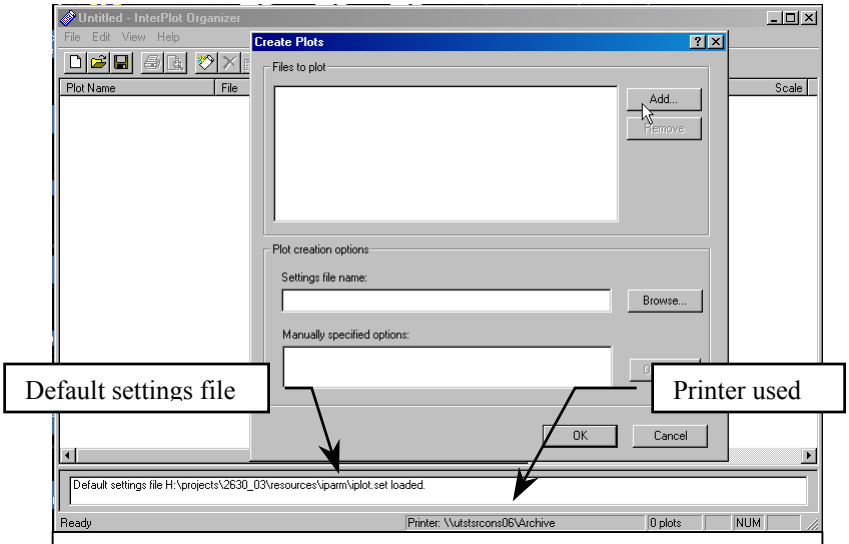

Figure 3 – Verify printer and Settings file. The message area of the program displays the settings file that will be used as default by the program. The printer that is being used for the plot set is displayed at the bottom of the dialog box. Click on Add… to start selecting files to add to the plot set.

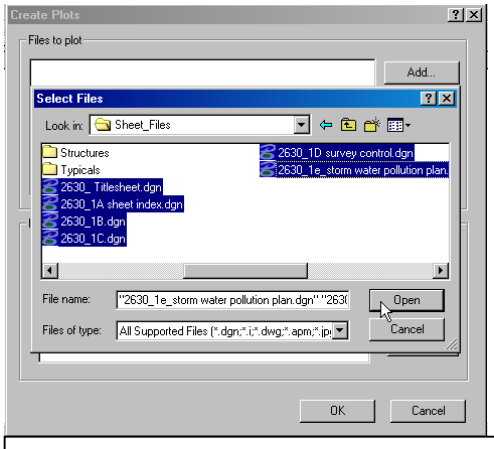

Figure 4 - Select files. Select the files to include in the plot set and click on Open. Repeat for files in each subdirectory.

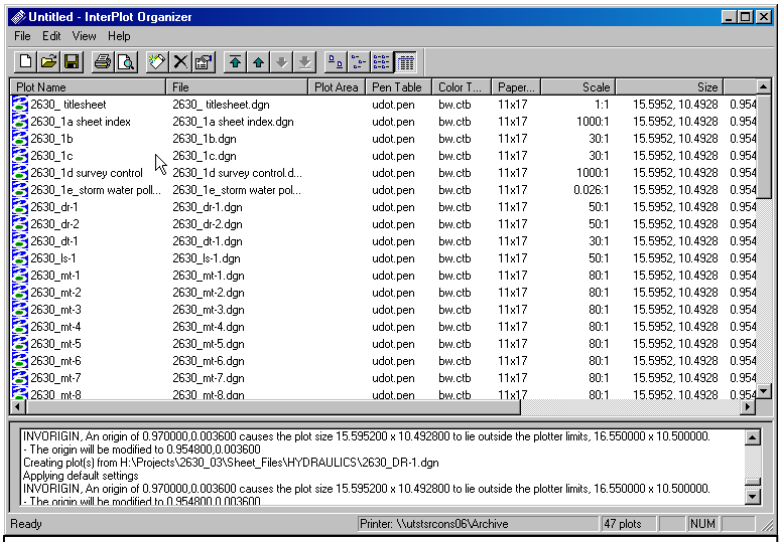

Figure 5 – Check Plot Set. Scroll through the message area to check for errors from missing files or ignored area qualifiers. Check the pen table, paper size, scale, working space, and units columns to verify the correct parameters.

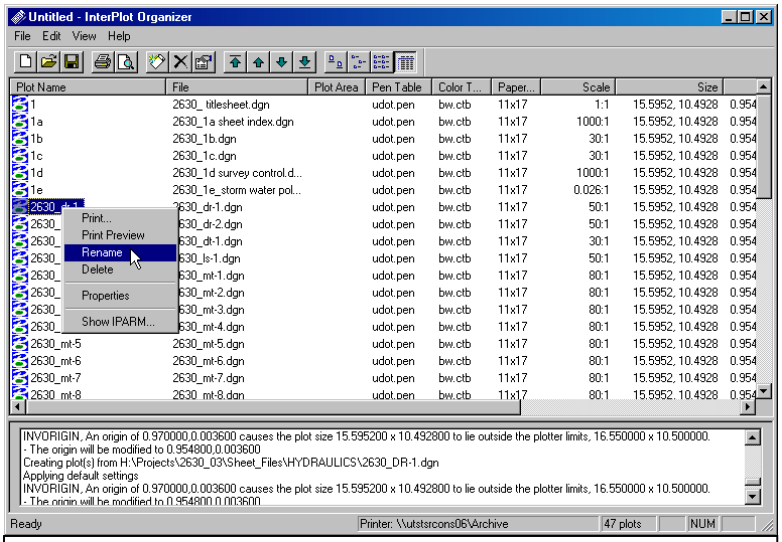

Figure 6 – Rename plot names. Rename plot names to correspond with naming conventions defined in Standard Drawing Sheet 1A, Plan Sheet Codes and Descriptions.

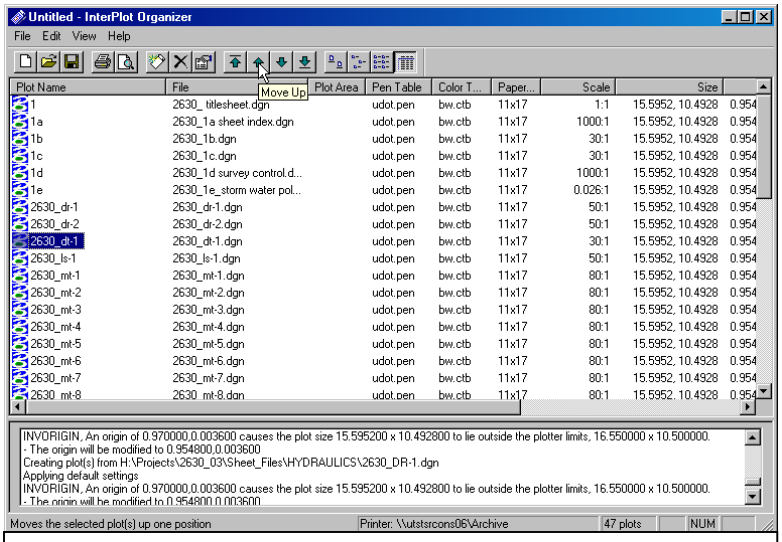

Figure 7 – Organize Sheets. Put the sheet files in the order indexed in sheet 1B. Use the arrows at the top of the program to move files up or down.

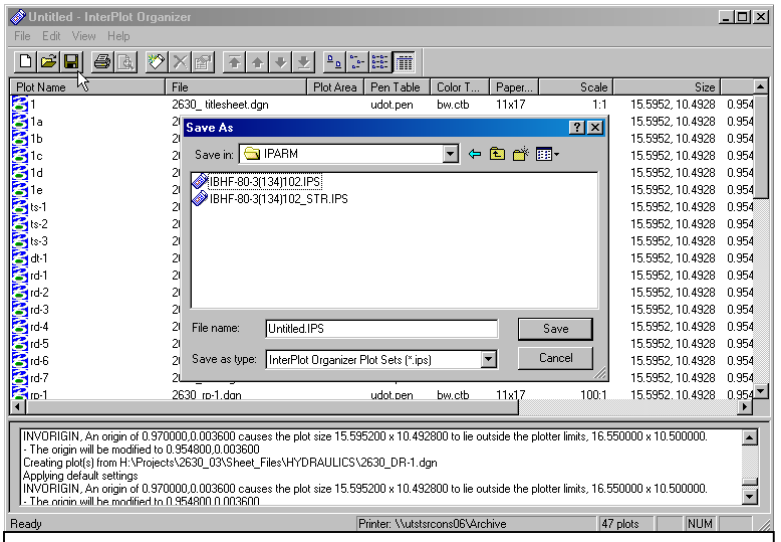

Figure 8 – Save the Plan Set. Save the plan set using the project name. For projects with structure drawings, save two different plot sets. Create one plan set with all roadway sheets and just the sheet 1's of the structure drawings for public use. The second plot set will contain all roadway and structure drawings and will have _STR added to the file name.

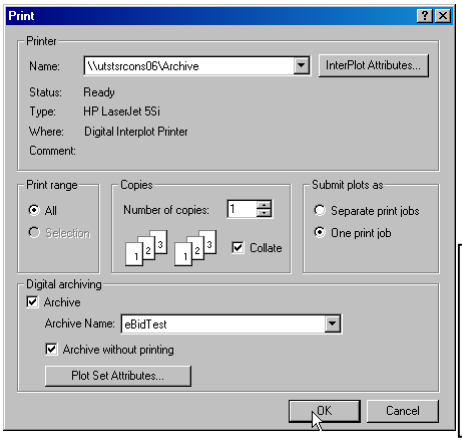

Figure 9 – Print to Archive. Toggle on the Archive option and select the archive name where the plot set will be saved. Toggle the Archive without printing to keep from printing a paper set of drawings.